2008 INCITE Getting Started Workshop
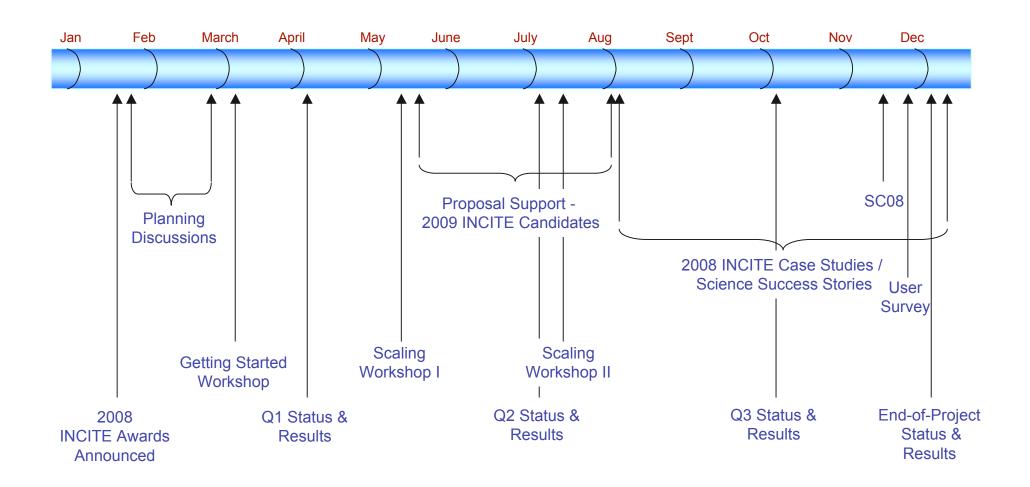
ALCF Service Offerings

ALCF Service Offerings

- Startup assistance
- User administration assistance
- Job management services
- Technical support (Standard and Emergency)

- ALCF science liaison
- Assistance with proposals, planning, reporting
- Collaboration within science domains

Help Desk Support

Catalyst Program

ALCF Services

Training & Outreach

Performance Engineering & Data Analytics

- Workshops & seminars
- Customized training programs
- On-line content & user guides
- Educational and industry outreach programs

- Performance engineering
- Application tuning
- Data analytics
- Data management services

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2008 Timeline of Activities

Jan   Feb   March   April   May   June   July   Aug   Sept   Oct   Nov   Dec

Planning Discussions

Proposal Support -
2009 INCITE Candidates

SC08

2008 INCITE Case Studies /
Science Success Stories

User
Survey

Getting Started
Workshop

Scaling
Workshop I

Scaling
Workshop II

2008
INCITE Awards
Announced

Q1 Status &
Results

Q2 Status &
Results

Q3 Status &
Results

End-of-Project
Status &
Results

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Upcoming ALCF INCITE Workshops

- Early May - 'INCITE Scaling Workshop I'
  - Performance optimization
  - Scaling runs and analysis (100T)

- July - 'INCITE Scaling Workshop II'
  - Performance optimization
  - Scaling runs and analysis (500T)

Open User Call

- ■ Weekly calls - format
  - – 1-hour calls planned for Thursdays from 10:00 CT (starting on March 20th)
  - – Open to all INCITE Projects
  - – Led by ALCF staff

- ■ Objectives
  - – Provide an additional venue to answer questions from ALCF INCITE Users
  - – Provide an open forum to share best practices, tips, etc.
  - – Provide ALCF staff with the opportunity to hear feedback, concerns and suggestions from our user community
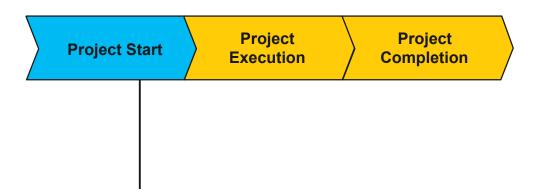
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Catalyst Program

What is it?	**Your catalyst if your *primary contact* and *best resource* in the ALCF.**
What are the program features?	■ Coordinate ALCF people and hardware resources 　　■ *Scheduling, Performance, Algorithms, Data Analysis* ■ Streamline use of ALCF ■ Advocate for scheduling computational campaigns ■ Keep up to date on the progress ■ Coordinate and collection quarterly reports on progress
What are the key objectives?	■ Ensure ALCF provides available resources for INCITE team success

Catalyst Program - Start

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┌──────────────┐─┐┌──────────────┐─┐┌──────────────┐─┐
│ Project Start │ ││   Project     │ ││   Project     │ │
│               │ ││  Execution    │ ││  Completion   │ │
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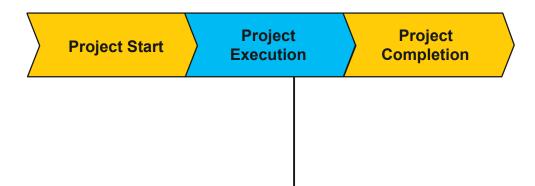
- Appoint Catalyst to INCITE Project

- Introduce ALCF team members to research team

- Review project goals

- Review ALCF service offerings

- Discuss areas of potential assistance and collaboration

- Attend "Getting Started" workshop

Catalyst Program - Execution

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┌──────────────┐┌──────────────┐┌──────────────┐
│ Project Start ││   Project    ││   Project    │
│              ││  Execution   ││  Completion  │
└──────────────┘└──────────────┘└──────────────┘
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- Collaborate with ALCF computational scientists, performance engineers and data analytics specialists

- Ongoing user support and training

- Discuss potential project extension/renewal prior to project end

- Quarterly status and reporting discussions

Catalyst Program - Completion

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┌─────────────────┐──┌─────────────────┐──┌─────────────────┐
│  Project Start  │  │    Project      │  │    Project      │
│                 │  │   Execution     │  │   Completion    │
└─────────────────┘──└─────────────────┘──└─────────────────┘
```

- Gather final usage statistics

- Fill-out end-of-project questionnaire and science report

- Perform hand-off from ALCF to research team (data, results, etc.)

- Archive and close project

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Performance Engineering

- Work closely on code optimization, profiling and scaling.

- Goal is to get initial port done at this workshop. Scaling tests up to a single rack of BG/P.

- Follow on workshop in May for scaling up to 8 racks. Will also introduce performance and debugging tools.

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Data Analytics

- RFP is out for a DA server. Due on March 7th, 08.

- Goal is to have the DA server up and running in middle of this year.

- Initial software offerings will all be open source. We are looking into commercial software.

- Will work closely with projects on their unique visualization needs.